## **CLAIMS**

1. Disperse dyes of the general formula (I)

where

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D is a diazo component derived from a substituted or unsubstituted aromatic amine,

K is an aromatic radical of the formula K<sub>1</sub>, K<sub>2</sub> or K<sub>3</sub>

R<sub>1</sub> is hydrogen, chlorine, C<sub>1-2</sub>-alkyl, C<sub>1-2</sub>-alkoxy, hydroxyl or acylamino,

R<sub>2</sub> is hydrogen, C<sub>1-4</sub>-alkoxy, C<sub>1-2</sub>-alkoxyethoxy, chlorine, bromine or combines with R<sub>3</sub> to form a group of the formula -\*CH(CH<sub>3</sub>)CH<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>- (\* attached to the nucleus),

R<sub>3</sub> is hydrogen, C<sub>1-6</sub>-alkyl, C<sub>3-4</sub>-alkenyl, chloro- or bromo-C<sub>3-4</sub>-alkenyl, C<sub>3-4</sub>-alkynyl, phenyl-C<sub>1-3</sub>-alkyl, C<sub>1-4</sub>-alkoxycarbonyl-C<sub>1-3</sub>-alkyl, C<sub>3-4</sub>-alkynyloxycarbonyl-C<sub>1-3</sub>-alkyl, phenoxy-C<sub>2-4</sub>-alkyl, halogen-, cyano-, C<sub>1-4</sub>-alkoxy-, C<sub>1-4</sub>-alkylcarbonyloxy- or C<sub>1-4</sub>-alkoxycarbonyloxy-substituted C<sub>2-4</sub>-alkyl, or a group of the formula -CH<sub>2</sub>-CH(R<sub>8</sub>)CH<sub>2</sub>-R<sub>9</sub>,

R<sub>4</sub> is hydrogen or C<sub>1-2</sub>-alkyl,

R<sub>5</sub> is phenyl which may be substituted by one or two substituents selected from the group consisting of methyl, chlorine, bromine and nitro or combines with R<sub>4</sub> to form a c-pentanone or c-hexanone ring,

R<sub>6</sub> is hydrogen or hydroxyl,

R<sub>7</sub> is hydrogen or methyl,

R<sub>8</sub> is hydroxyl or C<sub>1-4</sub>-alkylcarbonyloxy,

 $R_9$  is chlorine,  $C_{1-4}$ -alkoxy, phenoxy, allyloxy or  $C_{1-4}$ -alkylcarbonyloxy,

Y is C<sub>1-3</sub>-alkylene,

wherein  $R_3$  is just hydrogen when K is a radical of the formula  $K_2$  or  $K_3$ ,

the following formula being excluded

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2. Disperse dyes according to Claim 1, characterized in that the dyes of the formula (I) have the formula (Ia)

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where

D<sub>1</sub> is 3-phenyl-1,2,4-thiadiazolyl or conforms to one of the following formulae:

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$$(k) \longrightarrow (h) \qquad NC \longrightarrow N$$

$$|C_6H_5| \qquad (p) \longrightarrow S$$

$$O_2N$$
 $O_2N$ 
 $O_2N$ 

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## where

- (a) is hydrogen, chlorine, bromine, cyano, nitro-, C<sub>1-4</sub>-alkoxycarbonyl, C<sub>1-3</sub>-alkyl-sulphonyl, preferably hydrogen, chlorine, cyano or nitro,
- (b) is chlorine, bromine, nitro, methyl, C<sub>1-2</sub>-alkylsulphonyl, C<sub>1-4</sub>-alkylcarbonyl, aminosulphonyl, mono- or di-C<sub>1-4</sub>-alkylaminosulphonyl, phenylaminosulphonyl, C<sub>1-4</sub>-alkoxycarbonyl, benzyloxycarbonyl, tetrahydrofurfuryl-2-oxycarbonyl, C<sub>3-4</sub>-alkenyloxycarbonyl, C<sub>3-4</sub>-alkynyloxycarbonyl, aminocarbonyl, mono- or di-C<sub>1-4</sub>-alkylaminocarbonyl, phenylaminocarbonyl or phenylazo,
- 15 (c) is hydrogen or chlorine or else (when d is hydrogen) hydroxyl or rhodan,
  - (d) is hydrogen, chlorine, bromine, hydroxyl or cyano,
  - (e) is nitro, C<sub>1-4</sub>-alkylcarbonyl, C<sub>1-4</sub>-alkoxycarbonyl, cyano, aminocarbonyl, mono- or di-C<sub>1-4</sub>-alkylaminocarbonyl,
  - (f) is hydrogen, chlorine, bromine, C<sub>1-2</sub>-alkyl or phenyl,
- 20 (g) is nitro, cyano, formyl, dicyanovinyl or a group of the formula -CH=CH-NO<sub>2</sub>, -CH=C(CN)CO-OC<sub>1-4</sub>-alkyl, H<sub>5</sub>C<sub>6</sub>-N=N- or 3- or 4-NO<sub>2</sub>-C<sub>6</sub>H<sub>4</sub>-N=N-,
  - (h) is cyano or C<sub>1-4</sub>-alkoxycarbonyl,
  - (i) is C<sub>1-4</sub>-alkyl or phenyl,
  - (j) is -CN, -CH=CH2 or phenyl,
- 25 (k) is  $C_{1-4}$ -alkyl,
  - (I) is hydrogen, chlorine, bromine, cyano, rhodan, nitro, C<sub>1-4</sub>-alkoxycarbonyl or di-C<sub>1-4</sub>-alkylaminosulphonyl,

(p) is hydrogen, chlorine or bromine, and

(q) is  $C_{1-4}$ -alkyl or  $C_{1-4}$ -alkoxycarbonyl- $C_{1-4}$ -alkyl,

wherein the phenyl nuclei of these substituents may bear one or two substituents selected from the group consisting of chlorine, bromine, methyl and C<sub>1-2</sub>-alkoxy,

R'<sub>1</sub> is hydrogen, methyl, chlorine or acylamino,

R'<sub>2</sub> is hydrogen, chlorine,  $C_{1-2}$ -alkoxy,  $C_{1-2}$ -alkoxyethoxy or combines with R<sub>3</sub> to form a group of the formula -CH(CH<sub>3</sub>)CH<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>-,

 $R_3$  and  $R_5$  are each as defined above,

R'<sub>4</sub> is hydrogen or methyl, and

Y is a group of the formula -CH<sub>2</sub>CH<sub>2</sub>- or -CH<sub>2</sub>CH(CH<sub>3</sub>)-.

15 3. Disperse dyes according to Claim 1, characterized in that the dyes of the formula (I) have the formula (Ib)

20 where

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D<sub>2</sub> is the residue of a diazo component of the formula 2,6-dicyano-4-chloro-, 2,6-dicyano-4-bromo-, 2,6-dicyano-4-methyl-, 2,6-dicyano-4-nitrophenyl, 2,4-dinitro-6-chloro-, 2,4-dinitro-6-bromo- or 2,4-dinitro-6-cyanophenyl, 2-chloro-4-nitro-6-cyanophenyl, 2,5-dibromo-4-nitrophenyl, 2,6-dichloro-4-nitrophenyl, 2,6-dibromo-4-nitrophenyl, 2-chloro-4-nitrophenyl, 2-chloro-4-nitrophenyl, 2-cyano-4-nitrophenyl, 2,4-dinitro-5,6-dichlorophenyl, 2,5-dichloro-4-nitrophenyl, 4-nitro-phenyl, 4-phenylazophenyl, 4-C<sub>1-4</sub>-alkoxycarbonylphenyl, 4-(tetrahydrofurfuryl-2'-oxycarbonyl)phenyl, 3,5-dicyano-4-chloro-thienyl-2, 3,5-dicyano-thienyl-2,3-cyano-5-nitro-thienyl-2, 3-acetyl-5-nitro-thienyl-2, 5-phenylazo-

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3-cyano-thienyl-2, 5-phenylazo-3-cyano-4-methyl-thienyl-2, 5-nitro-thiazolyl-2, 5-nitrobenzoiso-thiazolyl-3, 3-methyl-4-cyano-isothiazolyl-5, 3-phenyl-1,2,4-thiadiazolyl-2, 5-( $C_{1-2}$ -alkylmercapto)-1,3,4-thiadiazolyl-2, 3-( $C_{1-2}$ -alkoxycarbonylethyl-mercapto)-1,2,4-thiadiazolyl-5, 1-cyanomethyl-4,5-dicyano-imidazolyl-2, 6-nitrobenzothiazolyl-2, 5-nitrobenzothiazolyl-2, 6-rhodanbenzothiazolyl-2, 6-chlorobenzothiazolyl-2, (5),6,(7)-dichlorobenzothiazolyl-2, or of the formula

and B is oxygen or a group of the formula = $(CN)_2$ , = $CH-NO_2$ , = $(CN)-COOC_{1-4}$ alkyl or = $(CN)-COOC_{3-4}$ alkenyl

and the symbols  $R'_{1}$ ,  $R'_{2}$ ,  $R_{3}$ ,  $R'_{4}$ ,  $R_{5}$  and Y are each as defined above.

- 4. Process for preparing the dyes of the formula (I), characterized in that a diazotized amine of the formula (II)
- 20 D-NH<sub>2</sub> (II)

is coupled with a compound of the formula (III)

H-K (III)

wherein D and K are each as defined in Claim 1.

 Use of dyes according to Claim 1 for dyeing and/or printing hydrophobic fibre materials especially polyester, acetate and/or triacetate fibre materials.

- 6. Use of dyes according to Claim 1 for printing hydrophobic fibre materials by means of the ink jet printing process or hot melt ink jet printing process.
- 7. Compositions comprising at least one dye according to Claim 1.

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8. Fibre materials printed or dyed with at least one dye according to Claim 1.